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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/634,268	08/05/2003	Jin-Man Han	P2341-C-1	7075
7590 04/22/2004		EXAMINER		
H. C. Chan			LAM, DAVID	
T-RAM, Inc. 100 Headquarters Drive			ART UNIT	PAPER NUMBER
San Jose, CA 95134-1370			2818	-
			DATE MAIL ED: 04/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	•				
	10/634,268	HAN, JIN-MAN				
Office Action Summary	Examiner	Art Unit				
	David Lam	2818				
The MAILING DATE of this communication apperiod for Reply	opears n the cover sheet with the	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply by within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS ate, cause the application to become ABAND	be timely filed ) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19	Responsive to communication(s) filed on 19 March 2004.					
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-5 is/are pending in the application	)⊠ Claim(s) <u>1-5</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
•	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>05 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
inj ine bath of declaration is objected to by the t	_xammer. Note the attached Of	nce Action of format 10-132.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 10/15/03.</li> </ul>	Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:					

### **DETAILED ACTION**

### Respond to Preliminary Amendment

- 1. This office action is in response to the preliminary amendment file on 3/19/04.
  - Claims 2-5 are newly added.
  - Claims 1-5 are pending in the application.

### Claim Objections

2. Applicant is advised that should claim 2 be found allowable, claim 3 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

### Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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3. Claims 1-5 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 22-33 of U.S. Patent No. 6,611,425. Although the conflicting claims are not identical, they are not patentably distinct from each other because the elements recited in claims 1-5 of the present application are art recognized equivalent with claims 10-33 of U.S. Patent No. 6,611,425.

With regard to claims 1-5, the present application recited a semiconductor memory device comprising memory cells, reference cells, first, second, third resistances, which is a mere similar version of the semiconductor memory device disclose in claims 10-33 of U.S. Patent No. 6,611,425. The purpose of the device is to provide fast and reliable sensing within the semiconductor memory device.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Tang et at. (5,966,330).

Regarding to claims 1-3, Tang et al. disclose a semiconductor device comprising: at least on memory cell configured to generate a first voltage on a first bit line (BL) and including a switching device (Qp) having first resistance; at least one reference cell configured to generate a second voltage on a second bit line (REF) and including a first resistive element (422) coupled

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between a voltage source (VCC) and the second bit line and having a second resistance (R2); and a second resistive (QR) couple between a sink and the second bit line and having a third resistance; a sense amplifiers (420) for generating an output in response to the first and second voltages; wherein at least one of the first and the second resistive elements comprises a transistor. See. Figs. 3-6; Cols. 2-7.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lam whose telephone number is (571) 272-1782. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

D. Lam

DAVID LAM

April 12, 2004